

1 (BSP December 2, 2002)

2 **Placing Expansion Joint Sealant**

3 The Contractor shall have the services of a qualified sealant manufacturer's
4 technical representative physically present at the job site to assist in assuring
5 the proper installation of the rapid cure silicone sealant, provide technical
6 assistance for the use of the joint sealant, train the Contractor's personnel
7 installing the joint sealant, and to observe and inspect the installation of at
8 least the first complete joint.

9
10 The joint sealant shall not be placed against fresh concrete (excluding polymer
11 concrete and polyester concrete) until at least seven days after concrete
12 placement.

13
14 The Contractor shall clean the bridge expansion joints of all forms, dirt, form
15 oil, grease, and other deleterious material. The Contractor shall clean and
16 prepare the entire joint surface receiving the joint sealant in accordance with
17 the joint preparation procedure as approved by the Engineer, and as
18 recommended by the sealant manufacturer's technical representative,
19 including two stage abrasive blasting surface preparation and compressed air
20 cleaning. All steel surfaces to be in contact with the joint sealant shall be
21 cleaned to an SSPC-SP10 condition. The joint receiving the sealant shall be
22 sound, clean, dry, and frost free.

23
24 If Dow Corning 902 RCS Joint Sealant is used, the Contractor shall apply the
25 primer, as recommended by the sealant manufacturer, to all surfaces to be in
26 contact with the joint sealant. On steel surfaces, the primer shall be dry to the
27 touch prior to applying the joint sealant. On concrete surfaces, the primer shall
28 cure at least 60 minutes prior to applying the joint sealant.

29
30 After the cleaned and prepared joint has received the Engineer's approval for
31 joint dimensions, alignment, and preparation, the Contractor shall prime the
32 bridge expansion joint surfaces, place the backer rod, and place the rapid cure
33 silicone sealant in accordance with the joint installation procedure as approved
34 by the Engineer, and as recommended by the sealant manufacturer's technical
35 representative.

36
37 If the joint width at the time of installation is less than 10 millimeters or greater
38 than 75 millimeters, the Contractor shall not proceed with the expansion joint
39 modification until the installation procedure is revised as recommended by the
40 sealant manufacturer's technical representative and as approved by the
41 Engineer.

42
43 After installing the rapid cure silicone sealant, the Contractor shall flood the
44 joint area with water and test the joint for leakage. If leakage is detected, the
45 bridge expansion joint system shall be repaired by the Contractor, as
46 recommended by the sealant manufacturer and approved by the Engineer, at
47 no additional expense to the Contracting Agency.